Dart Hawkesbury 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada Tel (613) 632-5200

## **Purchasing Receipts**

| PO No    | Supplier      | Line<br>Item<br>No | Rel<br>No | Terms  | Purchased Item   | Description  | For<br>Part<br>No | Project | Equipment<br>ID | Order<br>Qty | Due<br>Date | Received<br>Quantity | Accounting<br>Job No | Container<br>No | Status  | Receive<br>Date | Price/Unit   |
|----------|---------------|--------------------|-----------|--------|--|--|-------------------|---------|-----------------|--------------|-------------|----------------------|----------------------|-----------------|---------|-----------------|--------------|
| PO039779 | THY001-<br>VC | 1                  | 1         | Net 30 | M6061T6R1.125  | 6061 Round Bar 1.125:<br>MATERIAL: 6061-<br>T6/T651/T6510/T6511/T62<br>ALUMINUM ROUND BAR<br>AS PER QQ-A-225/8 OR<br>AMS-QQ-A-225/8 OR<br>AMS 4117<br>4128/4115/4116 OR QQ-<br>AA-200/8 OR AMS-QQ-A-<br>200/8 OR AMS 4160 OR<br>ASTM B221 OR ASTM<br>B221 receive ft |                   |         |                 | 12           | 5/9/2018    | 12                   |                      | S068498         | Stock   | 5/4/2018        | \$ 3.28 / ft |
|          |               | 2                  |           |        |  | 6061T6 Angle 4.00 X 4.00<br>X .250 : MATERIAL: 6061-<br>T6/T6510/T6511<br>ALUMINUM ANGLE AS<br>PER AMS-QQ-A-200/8<br>receive ft  |                   |         |                 | 20           |             | 20                   |                      | S068499         | Stock   | 5/4/2018        | \$ 6.04 / ft |
|          |               | 3                  |           |        |  | 6061T6 Bar 0.500 X 4.500  * MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B211 OR  |                   |         |                 | 24           |             | 24                   |                      | S068500 \$      | Stock   | 5/4/2018        | \$ 6.95 / ft |
|          |               | 4                  |           | i i    | 4<br>4<br>6<br>6   | 6061-T6 Bar .750 X 1.00 :<br>MATERIAL: 6061-<br>IG/1651/T6510/T6511/T62<br>ALUMINUM BAR PER<br>QQ-A-225/8 OR AMS-QQ-<br>A-225/8 OR AMS<br>1117/14/28/4115/4116 OR<br>QQ-A-200/8 OR AMS-QQ-<br>A-200/8 OR AMS 4160<br>QR ASTM B211 OR<br>ASTM B221 receive ft         |                   |         |                 |              |             | 24                   | 0.0                  | S068501 S       | Stock 5 | 5/4/2018        | \$ 2.49 / ft |
|          |               | 5                  |           | N      | M6061T6B0.750X00.125 N<br>T<br>A<br>A<br>4<br>4<br>4<br>C<br>A |  |                   |         |                 | 40           |             | 80                   | S                    | 9068502 S       | itock 5 | /4/2018 \$      | 3 3.25 / ft  |
|          |               | 6                  |           | M      | 304R1.750 3<br>M<br>S<br>A<br>30                               | 04 Round Bar 1.750 :<br>1ATERIAL: AISI 304/316<br>S ROUND BAR AS PER<br>STM A276 NOTE: AISI<br>03 NOT ACCEPTABLE<br>sceive ft  |                   |         |                 | 12           |             | 12                   | S                    | 068503 S        | tock 5  | 4/2018 \$       | 22.15 / ft   |
|          |               |                    |           |        |  |  | -                 |         | Total:          | 132          |             | 172                  |                      |                 |         |                 |              |

Plex 5/4/2018 10:03 AM Dart.Dubois.Pascal



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

## PURCHASE ORDER PO039779

Tel (613) 632-5200

Supplier:

Ship To:

THY001-VC

Thyssenkrupp Materials CA Ltd O/A VPK Metal- c/o T27540 PO Box 4275, Postal"A"

Toronto ON

M5W 5V8 Canada Phone: 905 669 9444 Fax: 905 738 9033

1270 Aberdeen Street

Hawkesbury

K6A 1K7 Canada Phone: 613-632-5200

ON

PO No:

PO039779

PO Date:

5/2/18 5/9/18

Due Date: Purchase Order

Revision:

Revision Date:

Ship-To Contact:

Lavoie, ChantalPhone:

clavoie@dartaero.com

Via:

Ground

Pymt Terms:

Net 30

Freight Terms:

Special Comments: quote no. 1203098041

Items Line Supplier Due Order Received Unit Extended Item **Part Part No** Description Status Date Quantity Quantity Balance Price (CAD) **Price** M6061T6R1.125 6061 Round Bar 1.125 Firmed 5/9/18 12 ft 0ft 12 ft \$3.28/ft \$39.36 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR DAS 11 AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR MAY 0 4 2018 9-89 AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft M6061T6A4.000W.250 6061T6 Angle 4.00 X 4.00 Firmed 5/9/18 20 ft 0 ft 20 ft \$6.04/ft \$120.80 X .250 : MATERIAL: 6061-T6/T6510/T6511 MAY 0 4 2018 **ALUMINUM ANGLE AS** -89 PER AMS-QQ-A-200/8 receive ft M6061T6B0.500X04.500 6061T6 Bar 0.500 X 4.500 Firmed 5/9/18 24 ft 0 ft 24 ft \$6.95/ft \$166.80 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-AS A-225/8 OR AMS 4117/4128/4115/4116 OR MAY 0 4 2018 QQ-A-200/8 OR AMS-QQ-88 A-200/8 OR AMS 4160 OR ASTM B211 OR **ASTM B221** receive ft

Plex 5/2/18 1:50 PM dart.lavoie.chantal

|              | 1                    |                     | It   | ems    |             |                   |                      |         |                     |                                      |
|--------------|----------------------|---------------------|--|--------|-------------|-------------------|----------------------|---------|---------------------|--------------------------------------|
| Line<br>Item | I                    | Supplier<br>Part No | Description  | Status | Due<br>Date | Order<br>Quantity | Received<br>Quantity | Balance | Unit<br>Price (CAD) | Extended<br>Price                    |
| 4            | M6061T6B0.750X01.000 |                     | 6061-T6 Bar .750 X 1.00<br>: MATERIAL: 6061-<br>T6/T651/T6510/T6511/T62<br>ALUMINUM BAR PER<br>QQ-A-225/8 OR AMS-QQ-<br>A-225/8 OR AMS<br>4117/4128/4115/4116 OR<br>QQ-A-200/8 OR AMS-QQ-<br>A-200/8 OR AMS 4160<br>OR ASTM B211 OR<br>ASTM B221<br>receive ft | Firmed | 5/9/18      | 24 ft             | 74                   |         | \$2.49/ft<br>DAS    | \$59.76                              |
| 5            | M6061T6B0.750X00.125 |                     | 6061-T6 Bar .750 X .125<br>: MATERIAL: 6061-<br>T6/T651/T6510/T6511/T62<br>ALUMINUM BAR PER<br>QQ-A-225/8 OR AMS-QQ-<br>A-225/8 OR AMS<br>4117/4128/4115/4116 OR<br>QQ-A-200/8 OR AMS-QQ-<br>A-200/8 OR AMS 4160<br>OR ASTM B211 OR<br>ASTM B221<br>receive ft | Firmed | 5/9/18      | 40 ft             | 80                   | 40 ft   | \$3.25/R            | \$130.00<br>119<br>DAS<br>11<br>9-89 |
| 6            | M304R1.750           |                     | 304 Round Bar 1.750<br>: MATERIAL: AISI 304/316<br>SS ROUND BAR AS PER<br>ASTM A276 NOTE: AISI<br>303 NOT ACCEPTABLE<br>receive ft   | Firmed | 5/9/18      | 12 ft             | 12                   | 12 ft   | \$22.15/ft          | \$265.80<br>DAS<br>11<br>9-89        |
|              |                      |                     |  |        |             |                   |                      | c       | Grand Total:        | \$782.52                             |

**Order Notes** 

**Procurement Quality Clauses** 

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit <a href="https://www.dartaerospace.com">www.dartaerospace.com</a> for further explanation.

M

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## **DELIVERY NOTE**

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON K6A 1K7

DATE:

05/04/2018

DOC. NO:

2405940913\*

BOL. NO:

2405940913

ORDER NO:

1403630272

YOUR P/O:

39779

CUSTOMER NO:

10058125

Route:

303UA

CONTACT:

Stan Ivers

TEL:

905-532-1350 ext 21350

FAX:

905-738-9033 ext 9033

EMAIL:

STAN.IVERS@THYSSENKRUP

P.COM

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR TO SHIPPING

ATTN: CHANTAL/LINDA

ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER \*\*

REFERENCED ON IT \*\*

Deliveries are carried out for your account and risk acc. to our Gen. Terms & Cond. of Delivery and Payment.

0010 SSRD11496 T-304L Stainless Steel Round

PACKAG 1 1008569993

103 lb

PC

NET QTY1 / QTY2

1.7500 " X 144 Mill Length Actual Chemistry/Act. Physical

Standard Packaging

**TAGNUM** QTY 2001350466 1

DESCRIPTION

**UOM VEND** PC FIDELITY VENDPO HLOT 0000283688 CH-4346

**PCS** --- COM

**Total Gross Weight** 

105.000 lb

All items, not declared as partial delivery, are final quantities.

Delivery Terms: PPD gem. Incoterms 2000 Prepaid TRANSFER TRUCK

## CERTIFICAT DE CONFORMITÉ/CERTIFICATE OF COMPLIANCE

\*thyssenkrupp Matériaux NA certifie que le matériel décrit ci-dessus est conforme aux dessins ou spécifications exigés sur le bon de commande et qui sont en viqueur à la date ou la commande a été acceptée./ thyssenkrupp Materials NA certifies that the material described above is in accordance with the drawings or specifications called for on said order that are current on the date order was accepted.

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David Noordine - Director of Quality Assurance

thyssenkrupp Materials NA 22355 W 11 Mile Road Southfield, MI 48033



## **DELIVERY NOTE**

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON K6A 1K7

DATE:

05/04/2018

DOC. NO:

2405940914\*

BOL. NO:

2405940914

ORDER NO:

1403630272

YOUR P/O:

39779

CUSTOMER NO:

10058125

Route:

303UA

3030A

CONTACT:

Stan Ivers

TEL:

905-532-1350 ext 21350

FAX:

905-738-9033 ext 9033

EMAIL:

STAN.IVERS@THYSSENKRUP

P.COM

MIK

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR TO SHIPPING.

ATTN: CHANTAL/LINDA

\*\* ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER \*\*

\*\* REFERENCED ON IT \*\*

Deliveries are carried out for your account and risk acc. to our Gen. Terms & Cond. of Delivery and Payment.

ITEM DESCRIPTION NET QTY1 / QTY2 **PACKAG** 0010 ALREC00778 4 1008569740 6061 T6511 Aluminum Extruded Rectangular PC 0.12500 (+-.007) X 0.7500 (+-.010) X 240 Mill Length 10 Nominal Chemistry/Act Physical lb Standard Packaging **TAGNUM** VENDPO OTY **UOM VEND** HLOT **PCS** COM 2001350428 4 PC CAN ART A 0000286896 3B6959 4 ROHS COMPLIANT; ASTM B 221 | 2014 **Total Gross Weight** 12.000 lb

All items, not declared as partial delivery, are final quantities.

Delivery Terms: PPD gem. Incoterms 2000 Prepaid TRANSFER TRUCK

## CERTIFICAT DE CONFORMITÉ/CERTIFICATE OF COMPLIANCE

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David Noordine - Director of Quality Assurance





## **DELIVERY NOTE**

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON K6A 1K7





DATE:

05/04/2018

DOC. NO:

2405940915\*

BOL. NO:

2405940915

ORDER NO:

1403630272

YOUR P/O:

39779

CUSTOMER NO:

10058125

Route:

303UA

CONTACT:

Stan Ivers

TEL:

905-532-1350 ext 21350

FAX:

905-738-9033 ext 9033 STAN.IVERS@THYSSENKRUP

EMAIL:

P.COM

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ATTN: CHANTAL/LINDA

\*\* ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER \*\*

\*\* REFERENCED ON IT \*\*

Deliveries are carried out for your account and risk acc. to our Gen. Terms & Cond. of Delivery and Payment.

NET QTY1 / QTY2 **PACKAG** DESCRIPTION ITEM 2 1008569995 0010 ALREC00857 6061 T6511 Aluminum Extruded Rectangular PC 22 0.75000 (+-.010) X 1.0000 (+-.012) X 144 Mill Length lb Nominal Chemistry/Act Physical Standard Packaging PCS QTY **VENDPO** HLOT --- COM **TAGNUM UOM VEND** 5400392539 201805575 2001350467 2 PC SERVICE C ROHS COMPLIANT; ASTM B 221 | 2014 **Total Gross Weight** 24,000 lb

All items, not declared as partial delivery, are final quantities.

Delivery Terms: PPD gem. Incoterms 2000 Prepaid TRANSFER TRUCK

## CERTIFICAT DE CONFORMITÉ/CERTIFICATE OF COMPLIANCE

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David Noordine - Director of Quality Assurance

thyssenkrupp Materials NA 22355 W 11 Mile Road Southfield, MI 48033





## **DELIVERY NOTE**

DART AEROSPACE LTD 1270 ABERDEEN ST

HAWKESBURY ON K6A 1K7

DATE:

05/04/2018

DOC. NO:

2405940912\*

BOL. NO:

2405940912

ORDER NO: YOUR P/O:

1403630272

39779

CUSTOMER NO:

10058125

Route:

303UA

CONTACT:

Stan Ivers

TEL:

905-532-1350 ext 21350

FAX:

905-738-9033 ext 9033

EMAIL:

STAN.IVERS@THYSSENKRUP

P.COM

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ATTN: CHANTAL/LINDA

\*\* ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER \*\*

REFERENCED ON IT \*\*

Deliveries are carried out for your account and risk acc. to our Gen. Terms & Cond. of Delivery and Payment.

NET QTY1 / QTY2 **PACKAG** DESCRIPTION ITEM 1008569991 0010 ALREC00548 6061 T6511 Aluminum Extruded Rectangular 2 PC 63 0.50000 (+-.009) X 4.5000 (+-.034) X 144 Mill Length lb Nominal Chemistry/Act Physical Standard Packaging **VENDPO PCS** --- COM TAGNUM QTY **UOM VEND** HLOT PC SERVICE C 5400379605 201721131 2001350465 2 ROHS COMPLIANT; ASTM B 221 | 2014 Total Gross Weight 65.000 lb

All items, not declared as partial delivery, are final quantities. Delivery Terms: PPD gem. Incoterms 2000 Prepaid TRANSFER TRUCK

## CERTIFICAT DE CONFORMITÉ/CERTIFICATE OF COMPLIANCE

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David Noordine - Director of Quality Assurance





## **DELIVERY NOTE**

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON K6A 1K7

DATE:

05/04/2018

DOC. NO:

2405940911\*

BOL. NO:

2405940911

ORDER NO:

1403630272

YOUR P/O:

39779

CUSTOMER NO:

10058125

Route:

303UA

CONTACT:

Stan Ivers

TEL:

905-532-1350 ext 21350

FAX:

905-738-9033 ext 9033

EMAIL:

STAN.IVERS@THYSSENKRUP

P.COM

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ATTN: CHANTAL/LINDA

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\*\* REFERENCED ON IT \*\*

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| ITEM | DESCRIPTION         |              |            |                    |                | NET QTY1 / QTY2 | PACKAG     |
|------|---------------------|--------------|------------|--------------------|----------------|-----------------|------------|
| 0010 | ALANG39172          |              |            |                    |                | 1               | 1008569735 |
|      | 6061 T6511 Aluminu  | um Angle     |            |                    |                | PC              |            |
|      | Extruded Canadian S | tandard      |            |                    |                | 47              |            |
|      | 4.0000 X 4.0000 X   | 0.25000 X 24 | 0.0000 " M | lill Length, 240 I | N              | lb              |            |
|      | Nominal Chemistry/A | ct Physical  |            | //                 |                |                 |            |
|      | Standard Packaging  |              |            | 16.                |                |                 |            |
|      | TAGNUM QTY          | UOMVEND      | VENDPO     | HLOT IN            | PCS COM        |                 |            |
|      | 2001350427 1        | PC EXTRUDEX  | 5400392708 | 39113              | 1              |                 |            |
|      |                     |              | \          | Tota               | al Gross Weigh | t 61.000 lb     |            |
|      |                     |              |            |                    |                |                 |            |

All items, not declared as partial delivery, are final quantities. Delivery Terms: PPD gem. Incoterms 2000 Prepaid TRANSFER TRUCK

## CERTIFICAT DE CONFORMITÉ/CERTIFICATE OF COMPLIANCE

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David Noordine - Director of Quality Assurance

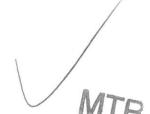
thyssenkrupp Materials NA 22355 W 11 Mile Road Southfield, MI 48033





## **DELIVERY NOTE**

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON K6A 1K7





DATE:

05/04/2018

DOC. NO:

2405940910\*

BOL. NO:

2405940910

ORDER NO:

1403630272

YOUR P/O:

39779

CUSTOMER NO:

10058125

Route:

303UA

CONTACT:

Stan Ivers

CONTACT.

Stan ivers

TEL: FAX: 905-532-1350 ext 21350 905-738-9033 ext 9033

EMAIL:

STAN.IVERS@THYSSENKRUP

P.COM

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ATTN: CHANTAL/LINDA

\*\* ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER \*\*

\*\* REFERENCED ON IT \*\*

Deliveries are carried out for your account and risk acc. to our Gen. Terms & Cond. of Delivery and Payment.

ITEM DESCRIPTION NET QTY1 / QTY2 **PACKAG** 0010 ALRD00329 1008569989 1 PC 6061 T6511 Aluminum Extruded Round 1.1250 (+-.006) X 144 " Mill Length 14 lb Nominal Chemistry/Act Physical Standard Packaging **TAGNUM** QTY **UOM VEND VENDPO** HLOT **PCS** 201706499 2001350463 1 PC -----ROHS COMPLIANT; ASTM B 221 | 2014 **Total Gross Weight** 28.000 lb

All items, not declared as partial delivery, are final quantities.

Delivery Terms: PPD gem. Incoterms 2000 Prepaid TRANSFER TRUCK

## CERTIFICAT DE CONFORMITÉ/CERTIFICATE OF COMPLIANCE

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David Noordine - Director of Quality Assurance

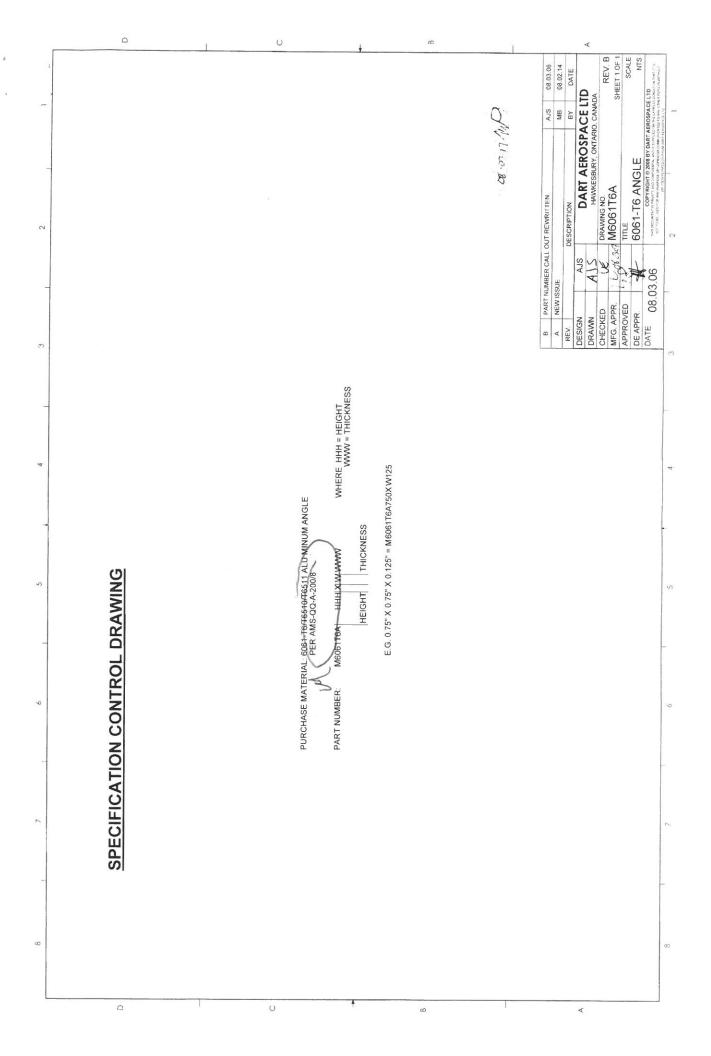


thyssenkrupp Materials NA 22355 W 11 Mile Road Southfield, MI 48033

## MATERIAL RECEIPT INSPECTION FORM

| MATERIAL: MG06<br>DATE:M  | AYU             | 6A        | 4.000l     | N, 250      |              | PO / BATCH   | NO.: <u>0397</u>    | 79/50684        |
|---|-----------------|-----------|------------|-------------|--------------|--|---------------------|-----------------|
| MATERIAL CERT REC'D:  QUANTITY RECEIVED:  QUANTITY INSPECTED:  QUANTITY REJECTED: | 20              | (         |            |             | THIC<br>SHEE | KNESS ORDEF<br>KNESS RECEI\<br>T SIZE ORDEF<br>T SIZE RECEI\ | /ED: 125<br>RED: N/ |                 |
| DESCRIPTION   |                 | CR<br>eck |            |             |              | COMMENT  | ·s                  |                 |
| SURFACE DAMAGE  | Υ               | (N        |            |             |              |  |                     |                 |
| CORRECT FINISH  | (Y)             | N         |            |             |              |  |                     |                 |
| CORROSION   | Y               | (N)       |            |             |              |  |                     |                 |
| CORRECT GRAIN DIRECTION   | (X)             | Ň         |            |             |              | 1 /2   |                     |                 |
| CORRECT MATERIAL PER M-DRAWING  | $ \mathcal{C} $ | N         | AMS        | QQ          | H            | 20018  |                     |                 |
| CORRECT THICKNESS   | Â               | X         |            |             |              | 70   |                     |                 |
| PHOTO REQUIRED  CORRECT REF # TO LINK CERT  | (8)             | Z Z       | Mart 1     | nt it       | 30           | 112  |                     |                 |
|   | (A)             | N         | HUO C      | OIT         | JY           | //3  |                     |                 |
| CORRECT M# ON THE MATERIAL  | M               | N         |            |             |              |  |                     |                 |
| DOES THIS MATERIAL REQUIRE  | U               |           |            |             |              |  | 90                  |                 |
| ENGINEERING SIGN OFF  | Υ               | N         |            |             |              |  |                     |                 |
| DOES THIS REQUIRE AN  |                 | )(        |            |             |              |  |                     |                 |
| EXTRUSION REPORT  | Υ               | (1)       |            |             |              |  |                     |                 |
| CUT SAMPLE PIECE  |                 |           | TERIAL A   |             |              |  | SS CHECK.           |                 |
|   |                 |           | HRC        | HRE         | 3            | DUR A  | DUR D               | WEBSTER         |
| TYPE OF MATERIAL  |                 |           |            |             |              |  |                     |                 |
| SIZE OF TEST SAMPLE   | 10              |           |            |             |              |  |                     |                 |
| HARDNESS / DUROMETER READIN   |                 | 04070     | located in | the Ouglite | , Offic      |  |                     |                 |
|   | 16              | sters     | rocated in | tire Quant  | VOIIIC       |  |                     |                 |
| QC 18 INSPECTION  |                 |           |            |             |              | ENGINEER   | ING SIGNOF          | F (if required) |
| INSPECTED BY: DAS DATE: 9-89 MAY 0  |                 |           |            |             | SIGN         | NED OFF BY:  |                     |                 |
| DATE: 9-89 MAY D  | 4 20            | 118       |            |             |              | DATE:  |                     |                 |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Quality Control Manager Tulsiram Mohabir



# TEL: (416)745-4444 FAX:(416)745-0925 1-800-668-7210

411CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4 http://www.extrudex.com

- ALLMINUM CIR

BILL TO

CERT CODE:

DIE NUMBER

DATE OF SHIPMENT

EXTRUDEX ORDER NO.

MANIFEST NO

39113 Chemical Composition Cast Number Mechanical Properties 4"x.250" RF AN A.11 lot lot THYSSENKRUPP MATERIALS, NA THYSSENKRUPP MATERIALS, NA A.11 Q 6061 Alle 6061 Alloy 0.575 2 0.237 0.199 0.0791 Fe 10 5400392708-C1A CUSTOMER PO CUSTOMER PART NUMBER
ALANG39172 M Jan/18/2018 Test Date 0.832 Mg 0.0653 5 Ultimate Tensile Strength (KSI) ALLOY PART DESCRIPTION 6061 4"x.250" RF AN 0 Z 0.0174 22440 42.80 TEMPER T6511 Zn 0.0192 Yield Strength (KSI) Н PETER BASHMAKOV Apr/09/2018 Ga 0 40.50 1 0 Elongation Percent 0 18 7 0 ASTM B221-14 AMS QQA 200/8 CERTIFICATION 86.5,86.8,87.2 Rockwell F Hardness 216067 18 0 B 0 MADE IN CANADA Sn 0 15 0 Conductivity 8 0 Remainder A 388927

specifications. We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper

TK Materials CA, Ltd. From:

DART AEROSPACE LTD

CstAr

Wgt.: 47 LB

Del.: 2405940911

Other

CstOr 39779

Date 05/03/2018 lamas

## MATERIAL RECEIPT INSPECTION FORM

| MATERIAL: M6061<br>DATE: MAY  | 16B                  | 0500         | X04,500            | PO / BATCH   | NO::0397    | <u>79/80685</u> |
|---|----------------------|--------------|--------------------|--|-------------|-----------------|
| MATERIAL CERT REC'D:  QUANTITY RECEIVED:  QUANTITY INSPECTED:  QUANTITY REJECTED: | 41                   |              | THIC<br>SHEE       | KNESS ORDEI<br>KNESS RECEI<br>ET SIZE ORDEI<br>ET SIZE RECEI | VED: 0.5    | 20<br>00<br>1A  |
| DESCRIPTION (C  | NCR<br>Check<br>Y/N) |              |                    | COMMENT  | rs          |                 |
| SURFACE DAMAGE Y  |                      |              |                    |  |             |                 |
| CORRECT FINISH  |                      |              |                    |  |             |                 |
| CORROSION   |                      |              |                    |  | 1750        |                 |
| CORRECT GRAIN DIRECTION   |                      | 1            | 201                |  |             |                 |
| CORRECT MATERIAL PER M-DRAWING  |                      | Ams          | -QQA-6             | 20018  |             |                 |
| CORRECT THICKNESS (Y  | 4-0                  |              |                    |  | *           |                 |
| CORRECT REF # TO LINK CERT  |                      | HOA          | Latet 10           | 170112   | ,           |                 |
| CORRECT MATERIAL IDENTFICATION (Y   |                      | risen        | PUTT NO            | 1701101  |             |                 |
| CORRECT M# ON THE MATERIAL  |                      |              |                    |  |             |                 |
| DOES THIS MATERIAL REQUIRE  | 1                    |              |                    |  |             |                 |
| ENGINEERING SIGN OFF Y  |                      |              |                    |  |             |                 |
| DOES THIS REQUIRE AN EXTRUSION REPORT Y   | N                    |              |                    |  |             |                 |
|   |                      |              |                    |  |             |                 |
| OUT OAMBLE DIEGE  | F 111                | TEDIAL A     | VID DEFENDI        | A HABBUE   | 00 0115014  |                 |
| CUT SAMPLE PIECE C  |                      |              | SULTS BELOV        |  | SS CHECK.   |                 |
|   | T                    | HRC          | HRB                | DUR A  | DUR D       | WEBSTER         |
| TYPE OF MATERIAL  |                      | 11110        | TIND               | DONA   | DOIND       | VVEDOTEIX       |
| SIZE OF TEST SAMPLE   |                      |              |                    |  |             |                 |
| HARDNESS / DUROMETER READING  |                      | *            |                    |  |             |                 |
| 100000  | testers              | s located in | the Quality Office | :e   | 2           |                 |
| QC 18 INSPECTION  |                      |              |                    | ENGINEER   | RING SIGNOE | F (if required) |
| INSPECTED BY: DAS   |                      |              | SIG                | NED OFF BY:  |             |                 |
| DATE: 9-89 MAY 0 4  | 2010                 | -            |                    | DATE:  |             |                 |
| Ditte. Too MAI U 4  | 7018                 |              |                    | DATE.  |             |                 |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

DELEASE N 2009 -05- 03

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION CONTROL DRAWING

SPECIFICATION: \ OQ-

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OCA 2268-DR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 QR AMS-QQ-A-200/8 (OR AMS 4160) OR 351M-B211 OR ASTM B221

PART NUMBER:

M6061168 T.TTT X WW.WWW THICK WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES "WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

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## Service Center Metals

Prince George, VA 23875 5850 Quality Way

# CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER 938724

CERTIFICATION

SPECIFICATION AMS-QQA-200/8 Rev-A ASTM-B221-14 StencilCont

RoHS 2011/65/EU Compliant

ALREC00548 SCRB .500 x 4.500 ThyssenKrupp Materials NA-Concord,ON

Quantity Certified

1,016 lbs

32 pcs

CUSTOMER PART NUMBER

DESCRIPTION

5400379605

CUSTOMER PO

ALLOY / TEMPER

SALESPERSON

D.Schroeder (Canada)

RB0456

6061-T6511

MANIFEST NUMBER

DIE NUMBER

DATE OF SHIPMENT

1/10/2018

354652

Thyssenkrupp Materials NA

All aluminum products supplied by Service Center Metals, LLC contain no functional mercury. Neither mercury nor its compounds are used in the manufacture of aluminum products at our facility. Furthermore, aluminum products supplied by Service Center Metals have not, to the best of our knowledge, contacted any source of mercury. We hereby certhy that the material covered by this report has been inspected in accordance with the most accent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

SCM Is ISO 9001-2015 certified This product is RoHS-2, REACH, and DFARS compliant

| 2 201721131 W  | Mechanical Properties  Tests Lot No. | Donald Control |
|----------------|--------------------------------------|----------------|
|                |                                      |                |
| 1/7/18         | Test Date                            |                |
| min<br>41.20   | Ultimate Tensile<br>Strength (KSI)   |                |
| max<br>41.30   | ensile<br>(KSI)                      |                |
| min<br>36.20   | Yield Strengtl<br>(KSI)              |                |
| max<br>36.90   | ength                                |                |
| min r<br>23.30 | Percent<br>Elongation                |                |
| max<br>24.40   |                                      |                |

Print Date: United States of America United States of America Melt Source: Rev 7/20/17 1/10/2018

002J171117B

002J171116B

201721131 201721131

6061 6061

0.62 0.62

0.25

0.07 0.06

0.86 0.86

0.07 0.07

0.03 0.04

0.02 0.03

97.86 97.88

0.05 0.05

0.15 0.15

.27

0.20 0.19 Cast #

Lot No.

Alloy

S

Fe

Cu

Mn

Mg

10

Zn

P

Each

Others Total

Chemical Composition for Aluminum Alloy 6061

SCℳ products are melted and extruded in the USA

Ltd. From: TK Materials CA, DART AEROSPACE LTD

CstAr

Calvin J. Wiggins, Director of Quality & Technical Services

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Wgt.: 63 LB

Del.: 2405940912

CstOr 39779 05/03/2018 Date

Tomas Sarche

| . MATER   | RIAL R                | RECEIPT INSPECTION FORM   |
|---|-----------------------|---|
| MATERIAL: MOO   | 61+6<br>AY 0 4 20     | BO-750X01,000 PO/BATCH NO:: 039779/5068501                                  |
| MATERIAL CERT REC'D:  QUANTITY RECEIVED:  QUANTITY INSPECTED:  QUANTITY REJECTED: | 7.45<br>241<br>241    | THICKNESS ORDERED: 0.750  THICKNESS RECEIVED: 0.750  SHEET SIZE ORDERED: NA |
| DESCRIPTION   | NCR<br>(Check<br>Y/N) | COMMENTS  |
| SURFACE DAMAGE  | Y (N)                 |   |
| CORRECT FINISH  | Y N                   |   |
| CORROSION   | Y (N)                 |   |
| CORRECT GRAIN DIRECTION   | Y N                   |   |
| ORRECT MATERIAL PER M-DRAWING   | (X) N                 | QQ-A-200/8  |
| CORRECT THICKNESS   | (Y) N                 | •   |
| PHOTO REQUIRED  | XW                    | 11 + 1 + 1 + 1  |
| CORRECT REF # TO LINK CERT  | X N                   | Heat 401 # 201805575  |
| ORRECT MATERIAL IDENTFICATION   | 75.75                 |   |
| CORRECT M# ON THE MATERIAL  | (Y) N                 |   |
| DOES THIS MATERIAL REQUIRE<br>ENGINEERING SIGN OFF                                | YN                    |   |
| DOES THIS REQUIRE AN EXTRUSION REPORT   | )(Z                   |   |

| CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. |                      |  |  |  |  |  |  |  |  |  |
|--|----------------------|--|--|--|--|--|--|--|--|--|
|  | RECORD RESULTS BELOW |  |  |  |  |  |  |  |  |  |
| HRC HRB DUR A DUR D WEBSTER                                |                      |  |  |  |  |  |  |  |  |  |
| TYPE OF MATERIAL   |                      |  |  |  |  |  |  |  |  |  |
| SIZE OF TEST SAMPLE  |                      |  |  |  |  |  |  |  |  |  |
| HARDNESS / DUROMETER READING                               |                      |  |  |  |  |  |  |  |  |  |

testers located in the Quality Office

| QC 18 INSPECTION |                  | ENGINEERING SIGNOFF (if required) |
|------------------|------------------|-----------------------------------|
| INSPECTED BY:    | DAS<br>11        | SIGNED OFF BY:                    |
| DATE:            | 9-89MAY 0 4 2018 | DATE:                             |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

REV. B SCALE SHEET 1 OF 1 09.07.13 DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M6061T6B
SHEE CP B REMOVE QQ.4-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1) 7 тт.е 6061-T6 BAR DESIGN DS
DRAWN
CHECKED A S
MFG. APPR.
APPROVED
DE APPR.
DE APPR.
DATE 09.07.13 REV.

QQ-A-225/8,OR-AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/B'OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTW B2T1 OR ASTM B221 PURCHASE MATERIAL: 6061-76/7651/76510/76511/762 ALUMINUM BAR SPECIFICATION: 1

9

PART NUMBER:

M6061T68 T.TTT | X | WW.WWW WIDTH THICK WHERE "T.TTT" = THICKNESS IN INCHES "WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

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SPECIFICATION CONTROL DRAWING



## Service Center Metals

Prince George, VA 23875 5850 Quality Way

# CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER 945842

9

CERTIFICATION

AMS-QQA-200/8 Rev-A obsolete SPECIFICATION. ASTM-B221-14 StencilCont

RoHS 2011/65/EU Compliant

We hereby certify that the material covered by this report has been inspected in accordance with the most-secent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6. ALREC00857 SCRB .750x1.000

ThyssenKrupp Materials NA-Concord, ON

Quantity Certified

2,288 lbs

216pcs

CUSTOMER PART NUMBER

ESCRIPTION 60<del>6</del>1-T6511

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5400392539

ALLOY / TEMPER

SALESPERSON

3/26/2018

D.Schroeder (Canada)

RB0111

CUSTOMER PO

MANIFEST NUMBER

DIE NUMBER

DATE OF SHIPMENT

362132

Thyssenkrupp Materials NA

SCM is ISO 9001-2015 certified All aluminum products supplied by Service Center Metals, LLC contain no functional mercury. Neither mercury nor its compounds are used in the manufacture of aluminum products at our facility. Furthermore, aluminum products supplied by Service Center Metals have not, to the bast of our knowledge, contacted any source of mercury. **Mechanical Properties** ests 8 201805575 Lot No. This product is RoHS-2, REACH, and DFARS compliant 3/22/18 Test Date 47.50 **Ultimate Tensile** min Strength (KSI) 51.20 max min 44.30 Yield Strength (KSI) max 48.20 min 16.10 Elongation Percent max 20.00

Calvin J. Wiggins, Director of Quality & Technical Services 0.03 ともという 97.34 2 Each 0.05 Others <u>Total</u> 0.15 Print Date: United States of America Melt Source: Rev 3/14/2018 3/26/2018

SCM products are melted and extruded in the USA

001J171104A

201805575

6061

0.74

0.38

0.32

0.11

0.90

0.11

0.07

Chemical Composition for Aluminum Alloy 6061

Lot No.

Alloy

S

Fe

5

M

Ma

D

Zn

TK Materials CA, Ltd

DART AEROSPACE LTD Cust. CstAr

Wgt.: 22 LB

Del.: 2405940915

CstOr 39779 05/03/2018 Date

Tomas,

## MATERIAL RECEIPT INSPECTION FORM

| MATERIAL: MG6<br>DATE: M  | 6/161<br>AY 0 4 2     | BO-750   | 2X0.129       | PO                  | / BATCH | NO.: 039    | 779/5067        |
|---|-----------------------|--|---------------|---------------------|---------|-------------|-----------------|
| MATERIAL CERT REC'D:  QUANTITY RECEIVED:  QUANTITY INSPECTED:  QUANTITY REJECTED: | 70° 30°               |  | TI<br>SI      | HICKNES<br>HEET SIZ |         | -/-/        |                 |
| DESCRIPTION   | NCR<br>(Check<br>Y/N) |  |               | C                   | DMMEN   | ΓS          |                 |
| SURFACE DAMAGE  | Y (N)                 | <del>/                                    </del> |               |                     |         | 20.48.31    |                 |
| CORRECT FINISH  | YYN                   |  | 101 100000    | *                   |         |             | ***             |
| CORROSION   | YN                    |  |               |                     |         |             |                 |
| CORRECT GRAIN DIRECTION   | (V) N                 |  |               |                     |         |             |                 |
| CORRECT MATERIAL PER M-DRAWING  | (Y) N                 | Asta   | n B26         | 21                  |         |             |                 |
| CORRECT THICKNESS   | Y N                   | 1  |               |                     |         |             |                 |
| PHOTO REQUIRED  | YW                    | 1  | 1             | ,                   | _       | **          |                 |
| CORRECT REF # TO LINK CERT  | (Y) N                 | Hear   | ELLOT         | #3                  | 13695   | 9           |                 |
| CORRECT MATERIAL IDENTFICATION  | M N                   |  |               |                     |         | •           |                 |
| CORRECT M# ON THE MATERIAL  | M (M)                 |  |               | 388132              |         | ** **       |                 |
| DOES THIS MATERIAL REQUIRE<br>ENGINEERING SIGN OFF                                | Y                     | )  |               |                     |         |             |                 |
| DOES THIS REQUIRE AN EXTRUSION REPORT   | YN                    |  |               | 10.42               |         |             |                 |
|   |                       | 8800   |               |                     |         |             |                 |
| CUT SAMPLE PIECE  |                       |  |               |                     | IARDNE  | SS CHECK.   |                 |
| W. W  |                       |  | SULTS BEL     | OW                  |         |             |                 |
|   |                       | HRC  | HRB           | D                   | UR A    | DUR D       | WEBSTER         |
| TYPE OF MATERIAL  |                       |  |               |                     |         |             |                 |
| SIZE OF TEST SAMPLE   |                       |  |               |                     |         |             |                 |
| HARDNESS / DUROMETER READI  | NG                    |  |               |                     |         |             |                 |
|   | testers               | s located in                                     | the Quality C |                     |         |             |                 |
| QC 18 INSPECTION  |                       |  |               | EN                  | IGINEER | RING SIGNOF | F (if required) |
| INSPECTED BY: DAS   |                       |  | SI            | GNED (              | OFF BY: |             |                 |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

DATE:

9-89 MAY 0 4 2018

CP REMOVE QQ.A.250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1)

REV. B SHEET 1 OF 1 09.07.13 01.06.08 DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M6061T6B DS BY - 6061-T6 BAR DESCRIPTION CHECKED A SECONDARY OF SECONDAR A NEW ISSUE DESIGN REV.

PART NUMBER:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR (ASTM BZ21

M6061T6B T.TTT | X | WW.WWW

WHERE "T.TT" = THICKNESS IN INCHES "WW.WWW" = WIDTH IN INCHES WIDTH THICK

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

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SPECIFICATION:

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

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SPECIFICATION CONTROL DRAWING

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## THYSSENKRUPP MATERIALS NA

**Certificate of Mill Test Results** 

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

BL PEC-000000-000 Signed by:

Pg 1/1

PART NO.

## Material Test Report

Manifest: 331639

Ship To: ThyssenKrupp Materials NA

2821 Langstaff Road Concord, ON LAK 5C6 Ticket: 5565436

Attn:

Our Order: 440234 - 1

Cust P.O.: 286896

Die: ES05485

Part: 05485-000-240

Alloy Temper: 6061 T6511

Description: .125 x .750

Print Date: 10/23/17

| Chemical Composition Range |      |     |      |      |     |      |           |      |           |            |  |  |  |
|----------------------------|------|-----|------|------|-----|------|-----------|------|-----------|------------|--|--|--|
| 6061                       | Si   | Fe  | Cu   | Mn   | Mg  | Cr   | <u>Zn</u> | Ti   | OtherEach | OtherTotal |  |  |  |
| Min                        | 0.40 |     | 0.15 |      | 0.8 | 0.04 |           |      |           |            |  |  |  |
| Max                        | 0.8  | 0.7 | 0.40 | 0.15 | 1.2 | 0.35 | 0.25      | 0.15 | 0.05      | 0.15       |  |  |  |

|                     | 0      |       |              | cal Proper<br>ength ksi | rties              |                              |  |
|---------------------|--------|-------|--------------|-------------------------|--------------------|------------------------------|--|
| Sample<br><u>ID</u> | Cast # | Lot # | Test<br>Date | Ultimate<br>Tensile     | Yield<br>2% offset | Elongation<br>2" gage length |  |
| 428886              | 3B6959 | A11_  | 10/22/17     | 43.21                   | 40.14              | 9.2                          |  |

Applicable Specifications: ASTMB221-14

AMS-QQ-A200/8A

Country of Origin: 85 Parkshore Drive, Brampton, Ontario CANADA L6T 5M1

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Evan Eng, Quality Assurance Manager

## MATERIAL RECEIPT INSPECTION FORM

| MATERIAL: M30   | 94 K              | 21.   | 750        | -»<br>-»        |          | PO / BATCH | NO.: <u>039</u> - | 174/5068                                |
|---|-------------------|-------|------------|-----------------|----------|------------|-------------------|---|
| MATERIAL CERT REC'D:  QUANTITY RECEIVED:  QUANTITY INSPECTED:  QUANTITY REJECTED: | 12                | (     |            | -<br>- T<br>- S | HICK     |            |                   |   |
| DESCRIPTION   | NC<br>(Che<br>Y/I | eck   |            |                 |          | COMMENT    | ΓS                |   |
| SURFACE DAMAGE  | -                 | (N)   |            |                 |          |            |                   | *************************************** |
| CORRECT FINISH  | (8)               | M     |            | 207-392-1181    |          |            |                   |   |
| CORROSION   |                   | (N)   |            | - W. 1868- W    |          |            |                   |   |
| CORRECT GRAIN DIRECTION   | (2)               | N     |            |                 |          | 100 pt     |                   |   |
| CORRECT MATERIAL PER M-DRAWING  | (X)               | Ν     | Asta       | 1 A27           | 6        |            |                   |   |
| CORRECT THICKNESS   | 8                 | Ŋ     | . 10.      | ,               |          |            |                   |   |
| PHOTO REQUIRED  | Y                 | 0     | Α Α        |                 |          |            |                   |   |
| CORRECT REF # TO LINK CERT  | Y                 | Ν     | Heart      | MITTE           | 0        | 4-4346     | ,                 |   |
| CORRECT MATERIAL IDENTFICATION  | (2)               | Ν     | ,          |                 |          | - 10-17-   |                   |   |
| CORRECT M# ON THE MATERIAL  | M                 | Ν     |            |                 |          |            |                   |   |
| DOES THIS MATERIAL REQUIRE<br>ENGINEERING SIGN OFF                                | Y                 | (S)   |            |                 |          |            | 2 135             |   |
| DOES THIS REQUIRE AN EXTRUSION REPORT   |                   | 3     |            |                 |          |            |                   |   |
|   |                   |       | 3532       | 200 M. A        |          |            |                   |   |
| CUT SAMPLE PIECE  | OF                | MAT   | TERIAL A   | ND PREF         | ORM      | A HARDNE   | SS CHECK.         |   |
|   | R                 | ECC   | ORD RES    | ULTS BEL        | OW       |            |                   |   |
|   |                   |       | HRC        | HRB             | $\Box$   | DUR A      | DUR D             | WEBSTER                                 |
| TYPE OF MATERIAL  |                   |       |            |                 | $\dashv$ |            |                   |   |
| SIZE OF TEST SAMPLE   | ı                 |       |            |                 | $\neg$   |            |                   |   |
| HARDNESS / DUROMETER READII   | vg t              |       |            | -               | $\dashv$ |            |                   |   |
|   |                   | sters | located in | the Quality     | Office   | 12         |                   |   |
|   |                   |       |            |                 |          |            |                   |   |

| QC 18 INSPECTION       | ENGINEERING SIGNOFF (if required) |
|------------------------|-----------------------------------|
| INSPECTED BY: 11       | SIGNED OFF BY:                    |
| DATE: 9-89MAY 0 4 2018 | DATE:                             |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

REV. B SCALE AJS 08.03.03 BY DATE SHEET 1 OF 1 09.07.15 DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
RFV CP 304/316 ROUND BAR B REFORMAT DWG, ADD SPECS (ZN D6-1),
A NEW ISSUE REV.
DESIGN
F.J.
DESIGN
CHECKED
MF.G. APPR.
APPROVED
DE APPR.
DE APPR.
APPROVED
DE APPR.
DE APPR.
DE APPR.
APPROVED
DE APPR.
DE APPR.
DATE
DATE

WHERE "D.DDD" = DIAMETER IN INCHES PURCHASE MATERIAL: AISI 304/316 SS ROUND BAR (NOTE: AISI 303 NOT ACCEPTABLE)
SPECIFICATION: ASTM A276 M364RID DDD

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EG. 0.75" ROUND BAR = M304R0.750

PART NUMBER:

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SPECIFICATION CONTROL DRAWING

## HYSSENKRUPP MATERIALS NA

## **Certificate of Mill Test Results**

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

|             | BL PEC-000000-000 |
|-------------|-------------------|
| Signed by:_ |                   |

PART NO.

## CHANDAN STEEL LIMITED

(GOVT, OF INDIA RECOGNISED EXPORT HOUSE)

90 9001 : 2008 CERTIFICATE No. 04 100 011002

ADM. OFFICE: TOL SUKH SAGAL N. S. 1

Tel.: 91-22-66290600. Pax.: 91-22-66290633/34 Website: www.chandansteel.net

Email : cst@chandanstrel.net

L/c. No.: L/c. Date: WORKS: Plot No. 35, G. L D. C., Umbergson

Dist Valsad, Gujarat - 3% 17L.

Tel.: 91-260- 808 9999 Fax.: 91-260 308 9872

E-mail : exports@chandanstrel.net

F824 QC 09A / 02 / 10.12.2012

Net Wt.

MILL TEST / INSPECTION CERTIFICATE 3.1 ACCORDING TO EN 10204 : 2005

FIDELITY PAC METALS LTD .

1303 NORTH SERVICE ROAD EAST,

UNIT #1 OAKVILLE,

ON L6H 1A7. CANADA

Test Certificate No. : EXP/00322 - 19/2016-2017

Date of Issue

: 04.07.2016

P. O. No.

: P004712

SC No. & Date

: 15-16/00924, Dt. 13.04.2016

LENGTH

Invoice No. & Date : EXP/00322/2016-17 Dt.04.07.2016

PRODUCT DESCRIPTION Actual Ordered STAINLESS STEEL ROUND BARS 1118 LBS. 12' - 12'6" 12' - 12'6" Grade Size Process Route Tolerance Heat No. mm/inches AISI/DIN Electric Melting, A.O.D. Refining, 304/304L

| CH-4    |       |      | /1.4307<br>400/530403 | 1 1   | 3/4"    | h9        |           |       | Continuo | us Casting, |        |
|---------|-------|------|-----------------------|-------|---------|-----------|-----------|-------|----------|-------------|--------|
| 1       |       |      |                       | C     | HEMICAL | COMPOSITI | ON (Weigh | nt %) |          |             |        |
|         | С     | Si   | Mn                    | P     | s       | Cr        | Mo        | Ni    | Cu       | Co          | N      |
| Min.    | -     | -    | -                     |       | -       | 18.00     | -         | 8.00  | -        | -           | -      |
| Max.    | 0.030 | 1.00 | 2.00                  | 0.045 | 0.030   | 20.00     | 1.00      | 10.50 | 1.00     | -           | 0.1000 |
| Results | 0.025 | 0.43 | 1.64                  | 0.040 | 0.020   | 18.06     | 0.32      | 8.04  | 0.38     | 0.10        | 0.0700 |

## MECHANICAL PROPERTIES

|                     |                    | Test N    | Method :- HN ISO 68        | 992-1                       |                   | Hardness         | Street describes control forms of the   |      |      |      |
|---------------------|--------------------|-----------|----------------------------|-----------------------------|-------------------|------------------|---|------|------|------|
| Specified<br>Values | Proof Str<br>N/mm² |           | Tensile Strength N/mm²/MPa | Elongation after Fracture A | Reduction of Area | EN ISO<br>6506-1 | Tested (2mm) as per DIN EN 190 148   Sample Size -   Test Temp. > 20 °C (foules |      |      |      |
|                     | 0.2% (Rp0.2)       | 1%(Rp1.0) | (Rm)                       | %                           | %                 | (BHN)            | Tested (2mm) as per DI Sample Test Temp. > 1                                    | 11   | Ш    | Avg. |
| Results             | 338                | 381       | 648                        | 52                          | 72                | 195-198          | N.A.  | N.A. | N.A. | N.A. |

## Remarks:

- 1. Smooth Turned and Polished
- 3. PMI test done 100% & found Satisfactory.
- 5. Material is free from mercury contamination,
- 7. Inter-Granular Corrosion Test as per ASTM A262 15 (Pr.E) satisfactory.
- 8. No welding or weld repairs were performed on this material while in our possession.

- 9. Micro structure reveals equiaxed grains of Austenite & free from carbide Precipitation.

  10. Grain size No. 6-7 of ASTM as per E112-96.

  11. Material is Ultrasonically Tested as per ASTM A388 & found satisfactory.

  12. The material hardness is in Accordance with NACE MR 0175-2009 and NACE MR 0103-2012.

  13. The material Conforms to ASTM A276-15, ASTM A182/A182M-15, ASME SA 182/SA 182M-13, ASTM A479/A479M-15.

  ASTM EA479/SA 479M-15.
- ASME SA479/SA-479M-15, ASTM A193/A193M-12b B8 CL1, ASME SA193/SA193M-13 B8 CL1, ASTM A320/A320M-11 B8 CL1, ASME SA320/SA 320M-10 B8 CL1, AMS-QQ-S-763E COND A, AMS - 5639H, AMS - 5647H,
- EN 10088-3: 2014 & DIN EN 10272-2008 Specification.
- 14. Location of sample Off centre, Direction Longitudinal, Test Temp Room Temp., Shape of Test Piece Round,
- 15. Marking details Company Logo, Size, Grade & Heat No.
- The material is manufactured / melt in Chandan Steel Mill and is of Indian Origin.

BUNDLE NO.: 75

COLOUR: RED

2. Solution annealed at 1050 °C.

6. Both ends Chamfered.

4. Material is free from radio-active contamination.

B. S. RAUTELA MANAGER - QUALITY ASSURANCE

It is hereby cartified that the above results are true and correct in every details and are meeting the requirements of specification & purchase order.

Page 19 of 26

## MATERIAL RECEIPT INSPECTION FORM

| MATERIAL: MGC DATE: M   | 61<br>AY 0          |       |             | 25          |             | PO / BATCH                          | 1 NO.: <u>039</u> | 179/506        |
|---|---------------------|-------|-------------|-------------|-------------|-------------------------------------|-------------------|----------------|
| MATERIAL CERT REC'D:  QUANTITY RECEIVED:  QUANTITY INSPECTED:  QUANTITY REJECTED: | Y.                  | 21    |             | -<br>- T    | HICK        | NESS ORDE<br>NESS RECE<br>SIZE ORDE | IVED:             | 25<br>25<br>/A |
| DESCRIPTION   | NC<br>(Chi          | eck   |             |             |             | COMMEN                              | TS                |                |
| SURFACE DAMAGE  | Y                   | N)    |             |             |             |                                     |                   | -              |
| CORRECT FINISH  | (Ŷ)                 | Ň     |             | 771         |             |                                     |                   |                |
| CORROSION   | Y                   | (N)   |             |             |             |                                     |                   |                |
| CORRECT GRAIN DIRECTION   | (Y)                 | N     |             |             |             |                                     |                   |                |
| CORRECT MATERIAL PER M-DRAWING  | Y                   | N     | Ams         | -QQ-X       | 1-21        | 30/7                                |                   |                |
| CORRECT THICKNESS   | (Y)                 | N     |             | <u> </u>    | <u> </u>    |                                     | ***               |                |
| PHOTO REQUIRED  | Y                   | (N)   |             |             |             |                                     |                   |                |
| CORRECT REF # TO LINK CERT  | (2)                 | N     | Heat        | Lotat       | 20          | 170649                              | 79                |                |
| CORRECT MATERIAL IDENTFICATION  | (4)                 | Ν     |             |             |             |                                     |                   |                |
| CORRECT M# ON THE MATERIAL  | (Y)                 | Ν     |             |             |             |                                     |                   |                |
| DOES THIS MATERIAL REQUIRE  |                     | ~     |             |             |             | ***                                 |                   |                |
| ENGINEERING SIGN OFF  | Υ                   | (N)   |             |             |             |                                     |                   |                |
| DOES THIS REQUIRE AN  |                     | -     |             |             |             |                                     |                   |                |
| EXTRUSION REPORT  | Υ                   | (N)   |             |             |             |                                     |                   |                |
| CUT SAMPLE PIECE  |                     |       |             |             |             | A HARDNE                            | SS CHECK.         |                |
|   | $-\frac{\kappa}{1}$ |       | HRC         | ULTS BEL    | -044        | DUDA                                | DUDD              | LAVEDOTES      |
| TYPE OF MATERIAL  | +                   |       | nkc         | HRB         | $\dashv$    | DUR A                               | DUR D             | WEBSTER        |
| SIZE OF TEST SAMPLE   | ŀ                   |       |             |             | _           |                                     |                   |                |
| HARDNESS / DUROMETER READII   | ve F                |       |             |             | +           |                                     |                   | -              |
| THE THEORY DONOMETER READIL   |                     | store | located in  | the Quality | Office      |                                     |                   |                |
|   | 10.                 | 2013  | rocated III | are quanty  | <u>omce</u> |                                     |                   |                |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

ENGINEERING SIGNOFF (if required)

SIGNED OFF BY:

DATE:

QC 18 INSPECTION

DAS

DATE: 9-89 MAY 0 4 2018

RELEASED 2009 - 0.9. 0.9.

SHEET 1 OF 09.07.13 01.06.08 DATE DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M6061TGR 6061-T6 ROUND BAR COPYRIGHT © 2001 BY DART ARROSPACE LTD THE DECOMPT BENEFIT OF A DECOMPTION OF THE DE CP DS ВУ B REFORMAT DWG, ADD B211& B221 SPEC (2N D8-1), REF PAR 08-020A TITLE CHECKED MEG. APPR. APPROVED AND DE APPR. DATE 09.07.13 NEW ISSUE REV. DESIGN DRAWN

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PURCHASE MATERIAL: 6061-76/7651/76510/76511/762 ALUMINUM ROUND BAR

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QQ A-225/8-QR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 QR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM BZ11-OR ASTM B221 SPECIFICATION: \

PART NUMBER:

M6061T6R D.DDD DIA.

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

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SPECIFICATION CONTROL DRAWING



## Service Center Metals

Prince George, VA 23875 5850 Quality Way

## CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER 921655 ITEM 20

CERTIFICATION

ASTM-B221-14 StencilCont

SPECIFICATION RoHS 2011/65/EU Compliant AMS-QQA-200/8 Rev-A

288 pcs CUSTOMER PART NUMBER ALRD00329 Lightning Rod Tite 1.125 +.005/-.004

5400353007

ALLOY / TEMPER

SALESPERSON

Ellis Williams

RD0006

6061-T651

333947

DIE NUMBER

DATE OF SHIPMENT

5/26/2017

Copper & Brass Sales, Inc.

Quantity Certified

4,040 lbs

Copper & Brass Sales, Inc.

Can Do.

revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification

description, and that samples representative of the material met the composition limits and had the mechanical properties shown Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6. This product is RoHS-2, REACH, and DFARS compliant.

| 11 201707341 | 12 201706499 |     | Tests Lot No.  | Mechanical Properties |
|--------------|--------------|-----|----------------|-----------------------|
|              |              |     |                |                       |
| 5/10/17      | 4/24/17      |     |                | Test Date             |
| 46.80        | 49.90        | min | Strength (KSI) | Ultimate -            |
| 48.20        | 52.70        | max | (KSI)          | Tensile               |
| 43.10        | 47.30        | min | (K)            | Yield St              |
| 44.90        | 49.90        | max | (KSI)          | rength                |
| 18.90        | 11.40        |     | Elon           | Per                   |
| 21.30        | 14.80        | max | longation      | cent                  |

| Chemical Composition for Aluminum Alloy 6061 | mposition fo | r Alumi | num Al   | loy 6061 |      | L    |      |      |      |      |            |        |       |                          |
|--|--------------|---------|----------|----------|------|------|------|------|------|------|------------|--------|-------|--------------------------|
|  |              |         |          |          |      |      |      |      |      |      |            | Others | ers   |                          |
| Cast#  | Lot No.      | Alloy   | <u>N</u> | Fe       | Cu   | Mn   | Mg   | ļζ   | Zn   | H    | <u>A</u> L | Each   | Total | Melt Source:             |
| 001E170505A                                  | 201707341    | 6061    | 0.75     | 0.39     | 0.33 | 0.10 | 0.90 | 0.10 | 0.06 | 0.03 | 97.34      | 0.05   | 0.15  | United States of America |
| 001J170415D                                  | 201707341    | 6061    | 0.72     | 0.37     | 0.32 | 0.09 | 0.88 | 0.10 | 0.08 | 0.03 | 97.40      | 0.05   | 0.15  | United States of America |
| 03191704                                     | 201706499    | 6061    | 0.76     | 0.40     | 0.35 | 0.11 | 0.86 | 0.08 | 0.09 | 0.02 | 97.33      | 0.05   | 0.15  | United States of America |
| 04271704                                     | 201707341    | 6061    | 0.73     | 0.37     | 0.30 | 0.10 | 0.87 | 0.08 | 0.06 | 0.03 | 97.46      | 0.05   | 0.15  | United States of America |
|  |              |         |          |          |      |      |      |      |      |      |            |        |       |                          |
|  |              |         |          |          |      |      |      |      |      |      |            |        |       |                          |

Print Date: 5/26/2017